	UR3e		UR5e		UR10e		
	UNUE		UNJE		UNITUE		
Specifications							
Payload	3 kg (6.6 l bs)		5 kg (11 l bs)	5 kg (11 l bs)		10 kg (22 lbs)	
Reach	500 mm (19.7 in)		850 mm (33.5 ir	850 mm (33.5 in)		1300 mm (51.2 in)	
Degrees of freedom					6 rotating join	ts —	
Programming				12 inch touchscr	een with polyscope g	raphical user interface	
Performance							
Power, Consumption, Maximum Average Power, Consumption, Typical	300 W 100 W		570 W 200 W		615 W 350 W		
with moderate operating set- tings (approximate)							
Safety				17 configurable safety functions			
Certifications				EN ISO 13849-1, PLd Category 3, and EN ISO 10218-1			
Force Sensing, Tool Flange Range Precision Accuracy	Force, x-y-z 30.0 N 2.0 N 3.5 N	Torque, x-y-z 10.0 Nm 0.1 Nm 0.1 Nm	Force, x-y-z 50.0 N 3.5 N 4.0 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.3 Nm	Force, x-y-z 100.0 N 5.0 N 5.5 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.5 Nm	
Movement							
Pose Repeatability per ISO 9283	± 0.03 mm		± 0.03 mm		± 0.05 mm		
Axis movement Base Shoulder Elbow Wrist 1 Wrist 2	# 360° # 360° # 360° # 360° # 360° # 360°	Maximum speed ± 180°/s ± 180°/s ± 180°/s ± 360°/s ± 360°/s	# 360° # 360° # 360° # 360° # 360° # 360°	Maximum speed ± 180°/s ± 180°/s ± 180°/s ± 180°/s ± 180°/s	# 360° # 360° # 360° # 360° # 360° # 360°	Maximum speed ± 120°/s ± 120°/s ± 180°/s ± 180°/s ± 180°/s	
Wrist 3 Typical TCP speed	Infinite	± 360°/s	± 360°	± 180°/s	± 360° — 1 m/s (39.4 in/s	± 180°/s	
Typical TCP speed					1 111/8 (39.4 111/8)	
Features							
IP classification					IP54		
ISO 14644-1 Class Cleanroom						5	
Noise	Less than 60 dB(A)		Less than 65 dB	Less than 65 dB(A) Less than 65 dB(A)		s(A)	
Robot mounting	, ,			Any Orientation		1	
I/O ports Digital in Digital out Analog in					2		
Tool I/O Power Supply Voltage					12/24 V —		
Tool I/O Power Supply	600 mA		1.5 A (Dual pin)	1.5 A (Dual pin) 1 A (Single pin) 2		A (Sing l e pin)	
Physical							
Footprint	Ø 128 mm		Ø 149 mm				
Materia l s				Aluminium, Plastic, Steel		Steel	
Tool (end-effector) connector type					M8 M8 8-pin		
Cable length robot arm					6 m (236 in)		
Weight including cable	11 . 2 kg (24.7 l bs)		20 . 6 kg (45.4 l bs	20.6 kg (45.4 lbs) 33.5 kg (73.9 lbs)			
Operating Temperature Range				0-50°C			
Humidity					90%RH (non-conden	sing) ————	

UR16e

16 kg (35.3 lbs)			
900 mm (35.4 in)			
900 Him (35.4 In)			
	_		
585 W			
350 W			
Force, x-y-z 160.0 N 5.0 N 5.5 N	Torque, x-y-z 10.0 Nm 0.2 Nm 0.5 Nm		
± 0.05 mm			
Working range ± 360° ± 360° ± 360° ± 360° ± 360° ± 360°	Maximum speed ±120°/s ±120°/s ±180°/s ±180°/s ±180°/s ±180°/s		
L	(4)		
Less than 65 dB	(A)		
2 A (Dual pin) 1	A (Sing le pin)		
Ø 190 mm			
33,1 kg (73 lbs)			

TECHNICAL DETAILS

Control box

Features

reatures	
IP classification	IP44
ISO 14644-1 Class Cleanroom	6
Operating Temperature Range	0-50°C
I/O ports Digital in Digital out Analog in Analog out Quadrature Digital Inputs	16 16 2 2 4
I/O power supply	24V 2A
Communication	500 Hz Control frequency Modbus TCP PROFINET Ethernet/IP USB 2.0, USB 3.0
Power source	100-240VAC, 47-440Hz
Humidity	90%RH (non-condensing)
Physical	
Control box size (WxHxD)	462 mm x 418 mm x 268 mm (18.2 in x 16.5 in x 10.6 in)
Weight	12 kg (26.5 l bs)
Materia l s	Powder Coated Steel

Teach pendant

Features

IP classification

Humidity	90%RH (non-condensing)
Display resolution	1280 x 800 pixels
Physical	
Materials	Plastic, PP
Weight including 1m of TP cable	1,6 kg (3,5 lbs)
Cable length	4,5 m (177,17 in)

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